TOMBACZ.

HUNGARY/Physical Chemistry - Solutions. Theory of B-11 Acids and Bases

Abs Jour: Referat Zhur - Khim, No. 9, 1959, 30629

Tombacs. E. Author Not given Inst

Note on the Dependence of the Light Absorption of Quinoxaline on the pH. Title

Acta Phys et Chem Szeged, 1957, No 1-4, 56-63 Orig Pub:

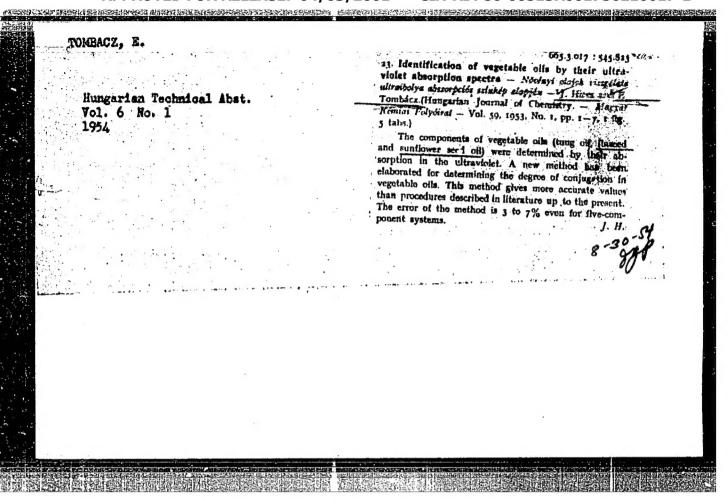
The author has investigated the absorption Abstract:

spectra in the 200-400 m# region of quinoxa-line (I), 2-hydroxyquinoxline (II) and 2,3-dihydroxyquinoxaline (III) in the pH range 0-11. The equilibrium constants K for the respective acid-base equilibria in aqueous solution at 200 have been calculated from the experimental data obtained by the application

Card 1/2

38

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HUNGARY/Optics - Spectroscopy

K-7

· 图1:17 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1) 10 (1)

Abs Jour: Ref Zhur - Fizika, No 2, 1959, No 4385

Author

: Tombacz E.

Inst

: The University, Szeged, Hungary

Title

: Dependence of the Absorption of Light by Chinoxalines on

the pH.

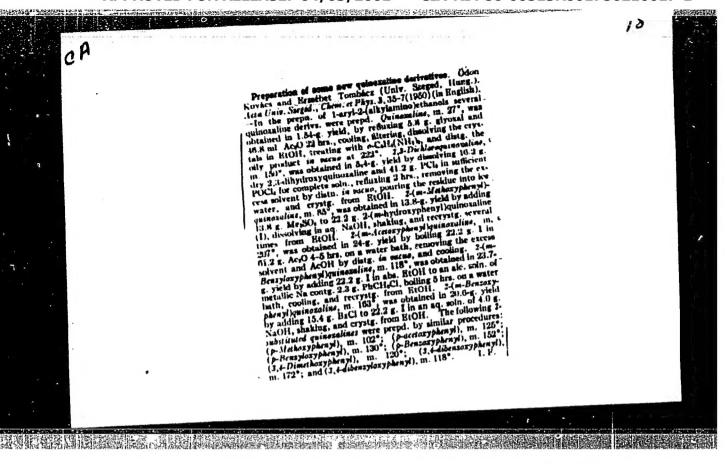
Orig Pub: Acta phys. et chem. Szaged, 1957, 3, No 1-4, 56-63

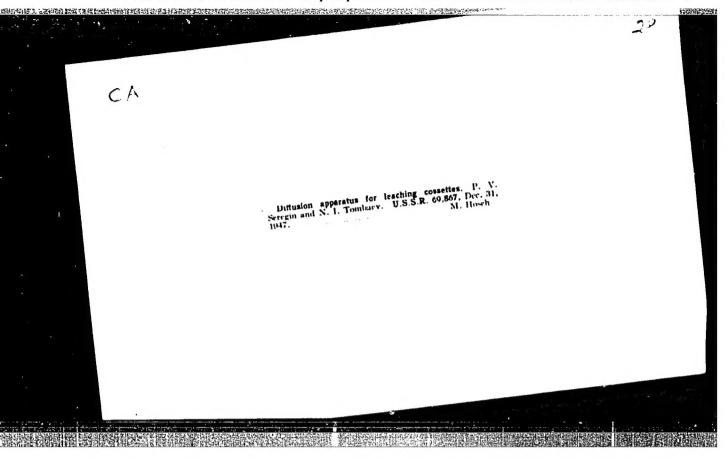
Abstract: The author has measured the absorption of light by solutions of chinoxaline, 2-oxychinoxalines, and 2-3-dioxychinoxaline as a function of the pH and has found the values of pH for these compounds at 20°C, equal respectively to 0.7, 8.9, and 9.3, 10.5. Comparing the data obtained with those known from the literature for similar compounds, the author predicts the assumed forms of ionization of the molecules of

the investigated substances. L.V. Dmitrenko

Card : 1/1

118





TOMBAK, L.

TCMBAK, L. Reinforcement of slabs of concrete roads. p. 206. Vol. 11, no. 9, Sept. 1956. DRCGCWNICTWO. Warszawa, Poland.

SURRCE: East European Accessions List (TFAL), Vol. 6, No. h -- April 1957

TOMBAK, L.

Timely reflections on prefabricated culverts and small bridges.p. 5. (Drogownictwo, Poland, Vol. 12, no. 1, Jan. 1957.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210017-1"

TOMBAH, L.

Draft of the instruction on "Conservation of Fissures and Repair of the Lamages in Concrete Surfaces." <u>Fiuletyn.</u> p. 5.
DROGOLFICTMO, Warszawa, Vol. 10, no. 6, June 1955.

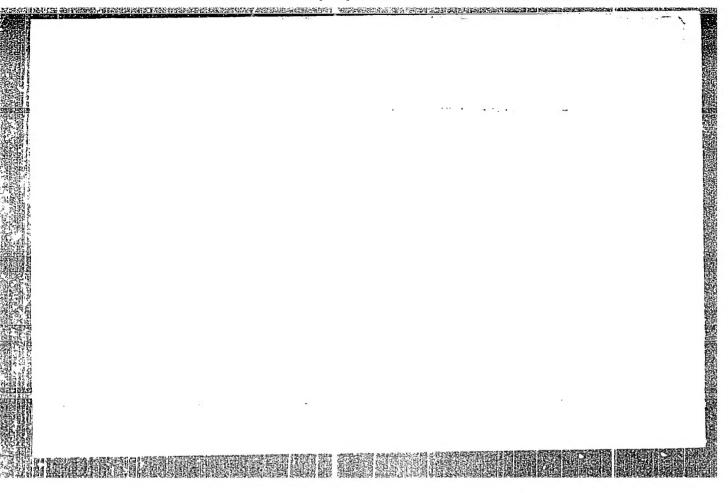
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

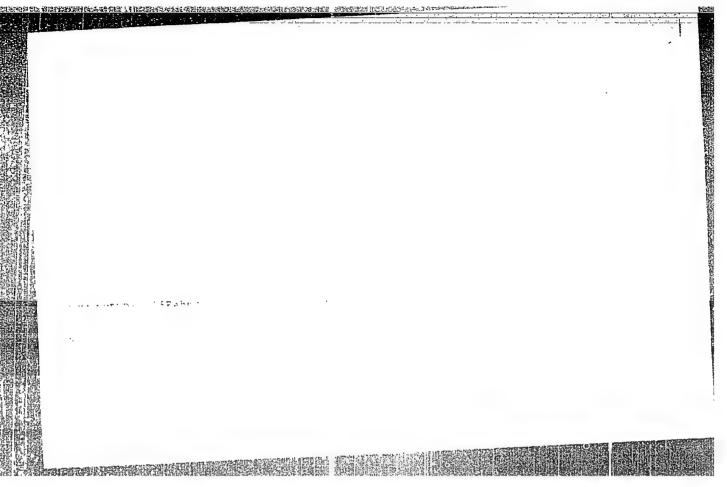
TOMBAK, M. I. Cand Chem Sci -- * Study of the method of production of luminophorous zinc sulfide by the reaction between zinc sulfate and sodium thiosulfate."

Len, 1961 (State Committee of the Council of Ministers USSR for Chem.

State Order of Labor Red Benner Inst of Applied Chem). (KL, 4-61, 188)

-78-





5(2) AUTHORS:

Tombak, E. I., Bundel', A. A.

TITLE:

The Investigation of a Method of Obtaining Luminophorous Zinc Sulfide by a Reaction Between Sodium Thiosulfate and Zinc Sulfate (Issledovaniye metoda polucheniya lyuminofornogo sul'fida tsinka reaktsiyey mezhdu tiosul'fatom natriya i

SOY/78-4-7-16/44

sul'fatom tsinka)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7,

pp 1568-1576 (USSR)

ABSTRACT:

The hitherto most frequently applied technical method of producing zinc sulfide has the disadvantage that hydrogen sulfide is used. The remarks made by other authors (Refs 1-7) gave rise to a more detailed investigation of the reaction mentioned in the title. In six series of experiments the composition of the solid, liquid, and gaseous phases in the course of the reaction was investigated. Table 1 shows the initial concentration of the reagents, figure 1 and table 2 show the variations of the concentration of individual ions during the reaction. Table 3 shows the analysis of the solid phase during various stages of the reaction. The mechanism of the reaction was the same in the case of all concentrations of the initial substances selected.

4 5 47 Card 1/3

CIA-RDP86-00513R001756210017-1" APPROVED FOR RELEASE: 04/03/2001

507/78-4-7-16/44

The Investigation of a Method of Obtaining Luminophorous Zinc Sulfide by a Reaction Between Sodium Thiosulfate and Zinc Sulfate

At 1000 the reaction develops according to the formulas: $ZnSO_4 + Na_2S_2O_3 = ZnS_2O_3 + Na_2SO_4$; $ZnS_2O_3 + H_2O = ZnS + H_2SO_4$. By the sulphuric acid formed, the medium is, however, acidified, so that side-reactions occur: Na₂S₂O₃ + H₂SO₄ = Na₂SO₄ + + H20 + S02 + S. The reaction product is therefore rendered more and more impure in the course of the reaction by elementary sulphur. The sulphur balance (Table 4) shows that by the reaction between SO2 and thiosulfate polythionate are, besides, formed, which decay while sulphuric acid and sulphur are formed. The dithionate ion formed according to the hypothesis developed by E. Grillot (Refs 6,7) was not found to exist at any stage of the reaction, nor was the reaction $2ZnS_2O_3 = ZnS + ZnS_3O_6$ mentioned by D. I. Mendeleyev (Ref 20). Purification of the solutions of initial substances is described. In the zinc sulfide obtained it was possible to reduce the SO4 -content by means of decantation with NaCl to 0.1%. The

Card 2/3

SOV/78-4-7-16/44 The Investigation of a Method of Obtaining Luminophorous Zinc Sulfide by a Reaction Between Sodium Thiosulfate and Zinc Sulfate

zinc sulfide obtained by means of this method contains a considerable quantity of oxygen compounds. The opinion expressed by Grillot that the latter are reduced by the admixed sulphur during annealing is not correct, because sulphur evaporates already at 400-450°, whereas the decomposition of the oxygen-containing salts begins only at 550-600°. The luminescence spectrum of the produced luminophores therefore shows a green line besides the blue line of zinc, which differed from the green copper line during heating up to 200° (Fig 4), and was found to be the line of the activated oxygen. There are 4 figures, 5 tables, and 27 references, 15 of which are Soviet.

ASSOCIATION:

Gosudarstvennyy institut rentgenologii i radiologii (State

Institute for Roentgenology and Radiology)

SUBMITTED:

April 11, 1958

Card 3/3

DEM'YANETS, L.N.; TOMBAK, M.I.

X-ray diffraction study and some optical characteristics of the system CaWO₄ - CdWO₄. Izv. AN SSSR. Neorg. mat. 1 no.5:758-762 (MIRA 18:10) My 165.

l. Institut kristallografii AN SSSR i Gosudarstvennyy nauchnoissledovatel skiy rentgeno-radiologicheskiy institut Ministerstva zdravookhraneniya RSFSR.

40894-55 SOURCE CODE: UR/0368/66/004/006/0564/0568 ACC NR: AP6019659 AUTHOR: Tombak, M. I.; Gurvich, A. M. ORG: none TITLE: Effect of the conditions of producing calcium tungstate on its luminescence [Presented at the XII Conference on Luminescence in L'vov in Jan-Feb 1964] SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 6, 1966, 564-568 TOPIC TAGS: calcium tungstate, luminescence, luminescence center, luminescence spectrum uv radiation ABSTRACT: The effect of the conditions of producing CaWOA on the intensity of its luminescence excitation spectrum, on afterglow, and on the thermoemission was investigated. It is shown that CaCl2 used as a flux not only noticeably increases the intensity of x-ray luminescence of CaWO4 but causes a shift of the edge of the excitation band by 10 mu toward the longwave side. This is evidence of the occurrence of new absorption centers of ultraviolet radiation, and since neither other chloride fluxes or CaO have such an effect it is assumed that CaClo causes the formation of not impurity defects but structural defects which are responsible for the appearance of these centers. It was found that a lead impurity has a different effect on afterglow of CaWO4 than anion impurities. Lead produces afterglow which does not differ UDC: 535.37 Card 1/2

L 40894-66

ACC NR: 'AP6019659

in color from luminescence during excitation by x-rays, whereas anion impurities, which are probably arsenate and antimonate, cause the appearance of a green afterglow. This indicates that the anion impurities yield new luminescence centers. The experimental data demonstrate that afterglow is not associated with the formation of radiation defects which were previously thought to be responsible for afterglow. Afterglow caused by radiation defects is observed only after the prolonged exposure of $CaWO_4$ to x-rays. Apparently the centers of luminescence capture are spatially separated and, consequently, prolonged (lasting tens of minutes) afterglow is associated with ionization of appropriate luminescence centers. These centers can be defects of the crystal lattice created by extraneous impurities. The capture centers can be created both by impurities and structural defects, the appearance of which can be associated with the thermal decomposition of $CaWO_4$ or with the introduction of impurities of different valences. The author thanks B. B. Dubovitskaya for help in the preparatory work. Orig. art. has: 3 tables and 2 figures.

SUB CODE: 11,20/ SUBM DATE: 25Jan65/ ORIG REF: 006/ OTH REF: 009

Card 2/2 MLP

SHUL'DINER, V.I.; TOMBASOV, I.A.

Age of granites in the northeastern part of the Argun Valley. Izv. vys. ucheb. zav.; geol. i razv. 7 no.1:137-138 Ja '64 (MIRA 18:2)

1. Chitinskoye geologicheskoye upravleniye.

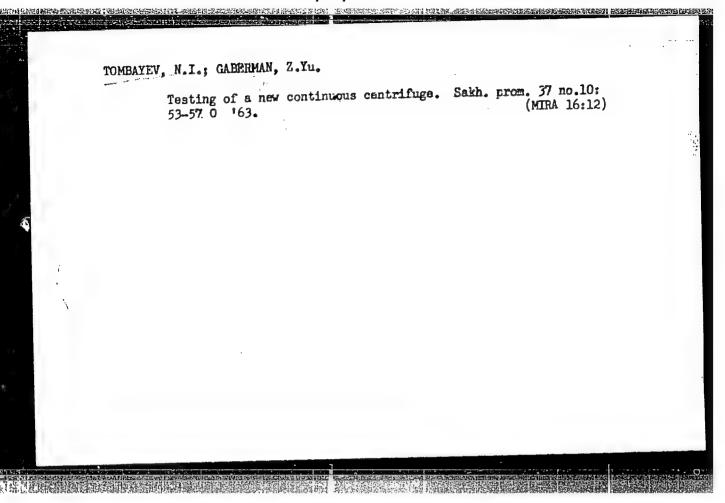
TOMBAYEV, N.; GABERMAN, Z.

High-efficiency electric driving for centrifuges. Sakh.prom. 38 no.3:59-63 Mr '64. (MIRA 17:4)

THE THE SECRETARY SERVICE SERV

STRAKHOV, V.V.; GIS.N, I.B.; KUZ'MIN, Yu.H.; TORBAYEV, N.I.; SHENDER, E.G.

[Continuous production of creamery butter using the vacuum butter-formation method] Potochnoe proizvodstvo slivochnogo masla s primeneniem vakuum-masloobrazovaniia. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1964. 29 p. (MIRA 18:5)



STRAKHOV, V.V., kand. tekhn. nauk; GISIN, I.B., kand. sel'khoz. nauk;
KUZ'MIN, Yu.N.; TOMBAYEY, N.I.; SHUVALOVA, N.S., nauchnyy
red.; ZORINA, G.V., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Modern equipment for making creamery butter]Sovremennoe oborudovanie dlia proizvodstva slivochnogo masla. Moskva, TSentr.
in-t nauchno-tekhn. informatsii mashinostreenia, 1962. 55 p.

(MIRA 16:4)

(Food machinery—Design and construction)

(Creameries—Equipment and supplies)

TOMPAYEV, N.I.; NESTEROVICH, A.A., inzh., retsenzent; ZHIGALOV, S.F., prof., doktor tekhn. nauk, red.; RYZHOVA, L.P., inzh., red. 1zd-va; DEMKINA, N.F., tekhn. red.

[Centrifuges for the food industry]TSentrifugi pishchevoi promyshlennosti. Moskva, Mashgiz, 1962. 222 p. (MIRA 16:4)
(Food machinery) (Centrifuges)

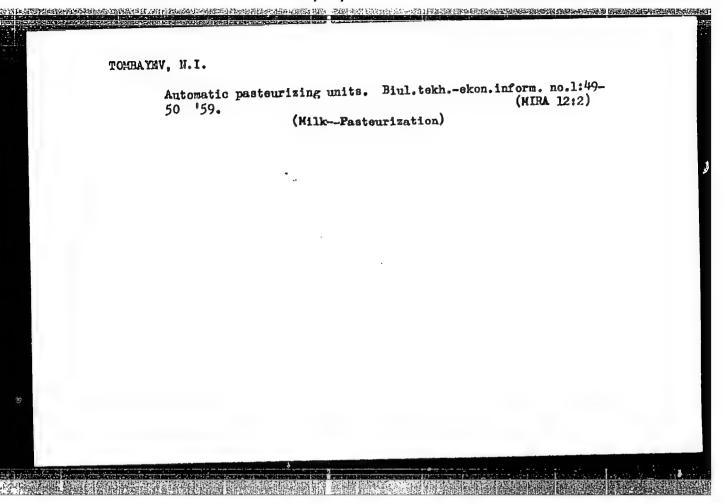
KOVALENKO, N.A.; TOMBAYEV, N.I.; KRIMUNOVA, A.Y., red.; SEIEKHOVA, P.M., tekhn.red.

[Catalog; technical equipment of dairy industry enterprises]
Katalog; tekhnologicheskoe oborudovanie predpriiatii molochnoi promyshlennosti. Moskva, 1962. 123 p. (MIRA 15:11)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii mashinostroyeniya, 2. Vsesoyuznyy nauchno-issledovatel'skly i eksperimental'no-konstruktorskiy institut prodovol'stvennogo mashinostroyeniya (for Kovalenko, Tombayev).

(Dairy industry—Equipment and supplies)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210017-1"



TOMBAYEV, N.I.; KUZ'MIN, Yu.N.

Program-controlled centrifuges (from "Die Zuchererzeugung," no.9
1960). Sakh.prom. 36 no.5:71-74 My '62. (MINA 15:5)
(Germany, East-Centrifuges) (Programming (Electronic computers))

TOMBAYEV, S.I.

Ways of increasing the productivity of hoists in operating mines. Ugol' Ukr. 7 no.7:35-37 Jl '63. (MIRA 16:8)

1. Zamestitel' glavnogo inzhenera instituta Luganskproyekt.
(Mine hoisting)

METSIK, R.; TOMBERG, A.; RAYAVEE, E. [Rejavee, E.]

Factors influencing the composition of phenols extracted in a condensation system of gas-generator stations. Khim. i tekh.gor.slan. i prod.

ikh perer. no.12:161-168 '63.

METSIK, R.; TOMBERG, A.; RAYAVEE, E. [Rajavee, E.]; KIVIMAA, Kh. [Kivimaa, H.] Investigating phenols extracted from semicoking shale tars by sodium carbonate aqueous solutions. Khim. i tekh.gor.slan. i prod. ikh perer.

(MIRA 17:2)

no.12:181-192 '63.

TOMBERG, Aleksandr Al'fredovich; LEONOV, S., red.; SHLYK, M.,
tekhn. red.

[Carrots] Morkov'. Pod red. V.I.Edel'shteina. Moskva,
Mosk. rabochii, 1963. 71 p. (MIRA 16:5)

(Carrots)

METSIK, R.E.; TOMBERG, A.I.

Possibility of improving the quality of oil shale phenols recovered from waste waters. Khim. i tekh. gor. slan. i prod. ikh perer no.13:198-202 '64.

Some materials on the corrosion of equipment in the shops for waste water dephenolization. Ibid.:229-237 (MIRA 18:9)

TOMBERG, G.T.

All-Union Congress of Petroleum Refinery Workers. Naftianik 9 no.9:14 8 '64 (MIRA 18:2)

1. Instruktor TSentral'nogo komiteta Professional'nogo soyuza rabochiki neftyanoy i khimicheskoy promyshlennosti.

PORKTSKIH, H.O., inzhener; TOMERRO, Kh.Ya., inzhener.

Experience in using jeint seals in hydraulic structures. Gidr.strei.25 ne.8:39-40 5 '56. (Dams) (MLRA 9:10)

IVANOV, V .: TOMBERG, S.

Establishing work norms for cargo handling at sea as an important condition for effective operation of the fleet. Mor.flot 26 no.1:14-15 Ja 166. (NIRA 19:1)

1. Nachal'nik otdela Gosudarstvennogo proyektnogo instituta rybopromyslovogo flota, Leningrad (for Ivanov). 2. Nachal'nik sektora portov Gosudarstvennogo proyektnogo instituta rybopromyslovogo flota, Leningrad (for Tomberg).

TOMEERG, S., starshiy inzh.; TSITSIASHVILI, M., inzh.

Hew loading and unloading techniques used in Leningrad's harbor.

Mor. flot 19 no.2:28-33 J '59. (MIRA 12:3)

1.TSentral'noye proyektno-konstruktorskoye byuro po portam.

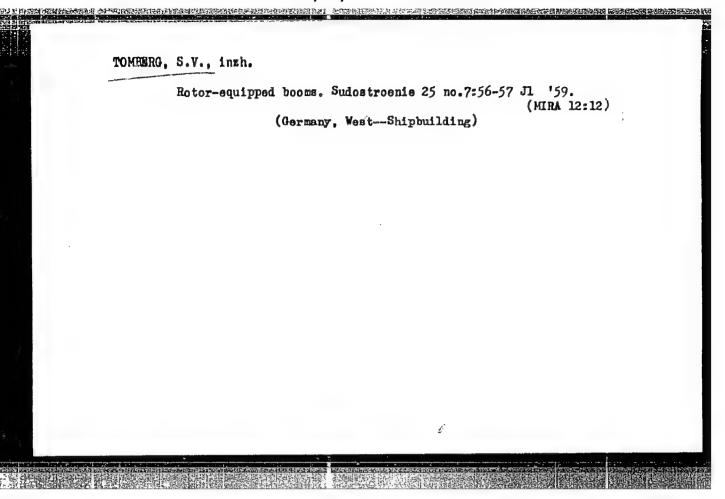
(leningrad--Harbor) (loading and unloading)

ALEKSANDROVA, Z., vedushchiy konstruktor; IVANOV, V.; TOMBERG, S.

Uniform standar's for servicing ships at sea fishery ports and stations. Mor. flot 25 no.4:10-11 Ap '65.

(MIRA 18:6)

1. Nachal'nik sektora Cosudarstvennogo proyektnogo instituta rybopromyslovogo flota (for Tomberg).



Girl from the Kreenhelm mills, Rabotnitsa 35 ne.5:4-5 My '57.

(Narva--Textile factories) (Nae, Ermina) (MIRA 10:6)

TOMBERG, U.; KARUS, G.

The first results in the use of glass pipes. p. 333.

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa) Warszawa, Poland, Vol. 32, no. 6, June 1958.

Monthly list of East European Accession (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

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TOMBERG, U.

Building roads on drained swampland. p. 37

SOTSILIKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTERIUM. Tallin, Hungary. No. 1, 1958

Monthly List of East European Accessions (ESAI) LC, Vol. 8, no. 11 November 1959.

Uncl.

TOMBERG, U.Khe, kand. tekhn. nauk (Tallin)

Drainage of shallow peat bogs with sand underlayers. Gidr. i zell 16 no.9:44-48 S 164.

(MIRA 17:11)

TOMBERG, U.

Sinking of peat during the draining of swamps. p. 187.

SOTSIALISTLIK POLLUMAJANDUS. Tallinn, Hungary. Vol. 13, no. 4, Apr. 1958.

Monthly List of East European Accessions (EEAI), LC, No. 4, July 1959. Uncl.

TOMBERG, U. Kh.: Master Tech Sci (diss) -- "Drying peat soils by drainage, under the conditions of the Estonian SSR". Moscow, 1959. 18 pp (Min Agric USSR, All-Union Sci Res Inst of Hydraulic Engineering and Soil Improvement in A. N. Kostyakov), 150 copies (KL, No 13, 1959, 107)

23

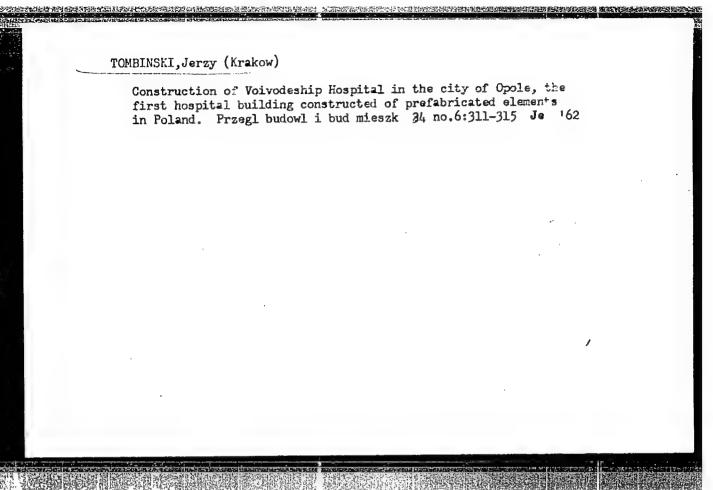
CA

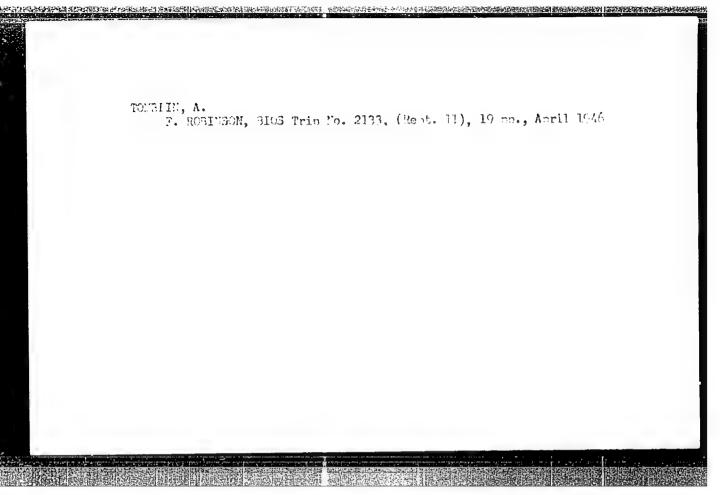
Coagulation studies of viscose solutions. V. Tombers. (Univ. Brussels, Belg.). Kelled Z. 123, 39(1951).—Coagulation of viscose solus. over a range of conens. in spinning baths was followed by spectrophotometric absorption and turbidity measurements, viscosity studies, and resistance and absorption of ultrasonic waves. Observations with an electron microscope showed a fibrous structure for the coagulating material.

L. P. Hall

TOMBINSKI, Jerzy (Krakow)

APPROVED TORRELEASE: m44/03/2001bricaCIA-RDR86-00543R001756210017-1"
Przegl budowl i bud mieszk 36 no. 4:190-194 Ap 164.





TOMBERG, V., zasluzhennyy deyatel' iskusstv Estonskoy SSR, laureat Stalinskoy premii
"Akhanrabo, the magic stone." Nauka i zhizn' 28 no.4:42-43 Ap '61.

(MIRA 14:5)

(Radiochemistry—Industrial applications)

(Motion pictures, Documentary)

(Textile fibers)

VAJDA, J.; TOMBOL, Thereeia

The lymphatic structure of the wall of the small intestine. Acta morph. acad. sci. Hung. 13 no.4:339-347 165.

Contributions on the mesenteric lymph circulation. Ibid.: 349-357

+ 384 Hz. +

1. Anatomisches Institut (Direktor: Prof. Dr. J. Szentagothai) der Medizinischen Universitat, Budapest.

TOMBOR, Janos, dr.

New treatment in threatened abortion before and after onset. Magy.

noorv. lap. 25 no.6:353-357 N '62.

1. A Marcali Jarasi Tanacs Korhaza (igazgato: Viczian Antal dr.) kozlemenye.

(ABORTION, THREATENED) (PHENYLBUTAZONE)
(AMINOPYRINE) (BROMIDES) (CALCIUM)

TCMBOR, Janos, dr.

A simultaneous case of torsion of cyst of the ovary and ectopic pregnancy. Magy noorv. lap. 24 no.1:42-43 Ja'61.

1. A Marcali Jarasi Tanacs Korhaza kozlemenye. (Igazgato: Viczian Antal dr.)

(PREGNANCY ECTOPIC compl) (OVARY neop1)

TOMBOR, Tibor, dr.

Book hygiene: a new science. Term tud kozl 8 no.5:199-204 My 64.

1. Scientific division chief, National Szechenyi Library, Budapest.

TOMBOR, Tibor, dr.; KUBINYI, Ference

Iron making and iron founding in Hungary from the oldest times to the end of the 16th century. Koh lap 97 no.ll: Suppl: Ontode 15 no. ll:261-269 N *164.

FARKAS, Laszlo (Budapest); HAVASSY, Pal, epiteszmernok (Budapest); TOMBOR, Tibor (Budapest)

Up-to-date housing of the Hungarian National Library in the Buda Castle. Term tud kozl 7 no.4:176-180 Ap 163.

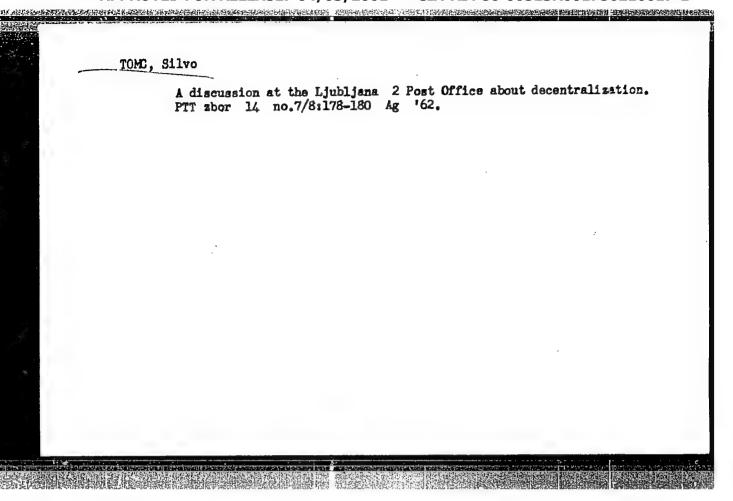
1. Orszagos Szechenyi Konyvtar osztalyvezetoje (for Tombor).

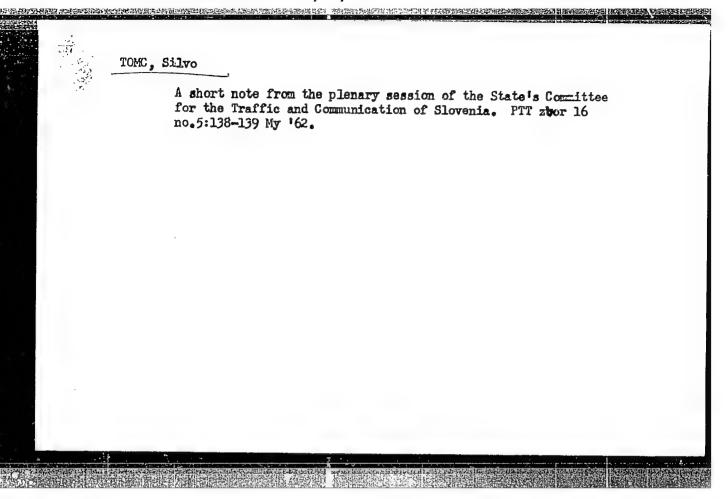
DYORZHAK, Iosef [Dvorak, Josef]; DAN'KO, Yu.T., inshener [translator];
AKIMOVA, A.V., kandidat tekhnicheskikh nank, redaktor; TOMBOTTSNYA,
S.S.; PANKOVA, V.M., redaktor; KIRSAHOVA, H.A., tekhnicheskiy
redaktor

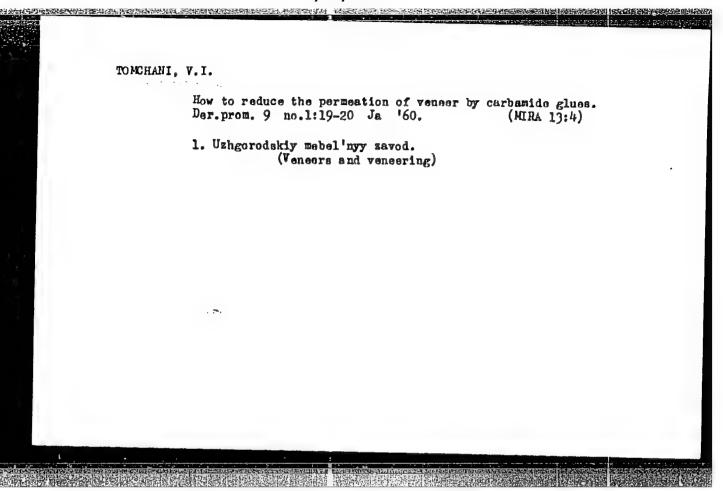
[Usovershenstvovaniis v oblasti kholodnoi obrabotki metallov.
Perevod s cheshekogo inzhenera IU.T.Dan'ko. [Moskva] Izd-vo
VTSSES Profiadat, 1956. 207 p.

(Metals--Gold working)

(Metals--Gold working)







Finishing furniture with nitro varnishes. Der. pros. 3 no.5:21
Hy '59. (MIRA 12:7)

1.Uzhgorodskiy mebel'nyy zavod.
(Varnish and varnishing) (Wood finishing)

BORDON, In. J., TOMOHIK, G.V.

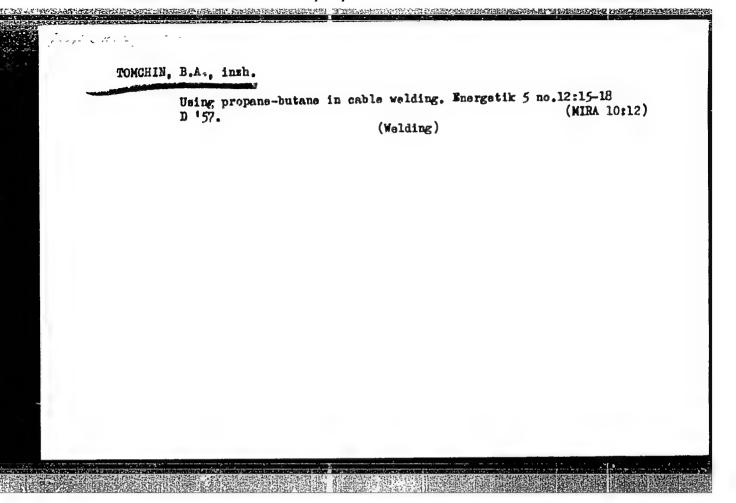
Punctional connections between blood vessels and annunes of the lymph node under normal conditions and in experimental disorders of the hemo- and lymphodynamics. Eiul. eksp. biol. 1 med. 60 no. 10:50-53 0 165 (MHM. 19:1)

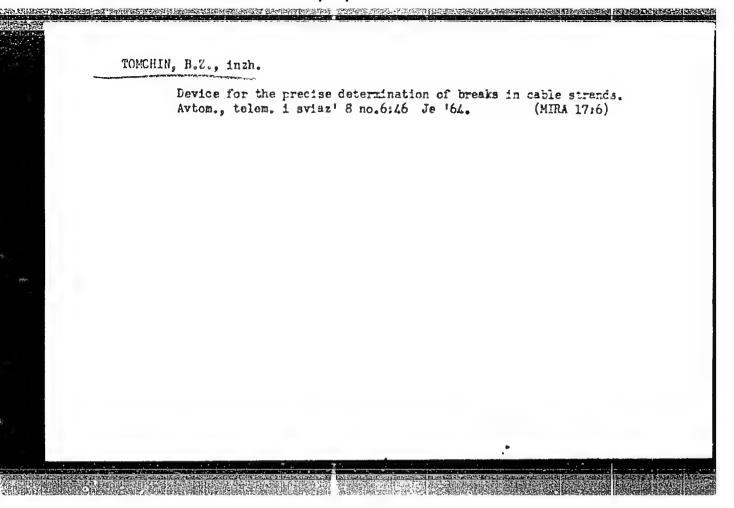
1. Raboratoriya normal'noy i patologicheskoy morfologii (wav. A.V. Bayeva) Instituta eksperimental'noy biologii i meditsiny (ispolnyayushchiy obyezennosti direktora - dotsent Yu.l. Forod'n; nauchnyy rukovoditel' - prof. Ye.N. Meshalkin), Novomibiisk. Sutmitted April 15, 1964.

TOMCHIN, ALB.; EFROS, L.S.

Interaction between epichlorohydrin and aminoanthraquinones. Zhur.ob.khim. 33 no.7:2321-2327 Jl '63. (MIRA 16:8)

l. Leningradskiy tekhnologicheskiy institut im. Lensoveta. (Epighlorohydrin) (Anthraquinones)





Determining the place of damage to insulation in cables when it has parallel outlets. Energetik 5 no.4:33-34 kp '57. (MLRA 10:6) (Electric cables)

MENICHENKO, Viktor Alekseyevich; TOMCHIN, Boris Zinov'yevich; GOL'DSHTEYN, I.S., red.; VENTSEL', I.V., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Locating leakage in the sheathings of communication cables] Opredelenie mest negermetichnosti obolochek kabelei sviazi; iz opyta stroitel'stva i ekspluatatsii kabel'nykh linii sviazi. Leningrad, 1963. 23 p. (MIRA 17:2)

Locating damage in a communication cable in the absence of undamaged strands. Avtom., telem. i sviaz' 5 no.12:28-30 D '61.

(MIRA 14:12)

(Electric lines--Measurement)

TOMCHIN, B.Z., inzh.

Determination of the distance to the apot of damaged insulation of a cable. Vest. sviazi 23 no.3:14-15 Mr '63. (MIRA 16:3)

1. Leningradskaya gorodskaya telefonnaya set!.
(Electric cables Measurement) (Electric measurements)

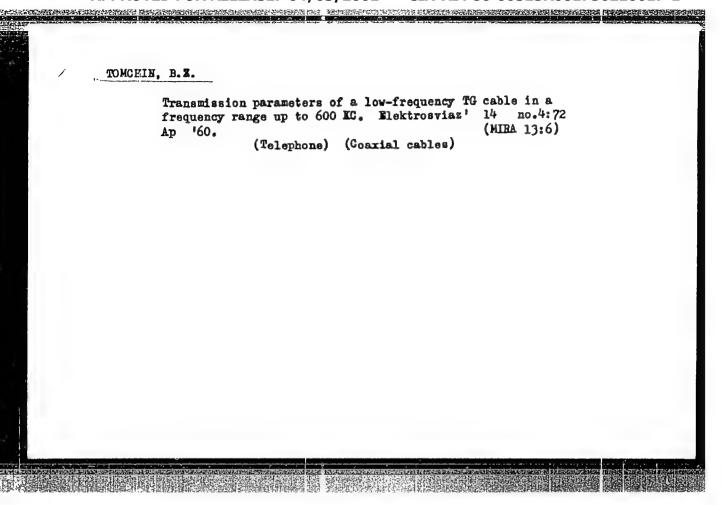
Automatic determination of the location of the damage in the lead sheathing of a cable. Avtom., telem.i sviaz' 6 no.11:32-33 N '62. (MIRA 15:11)

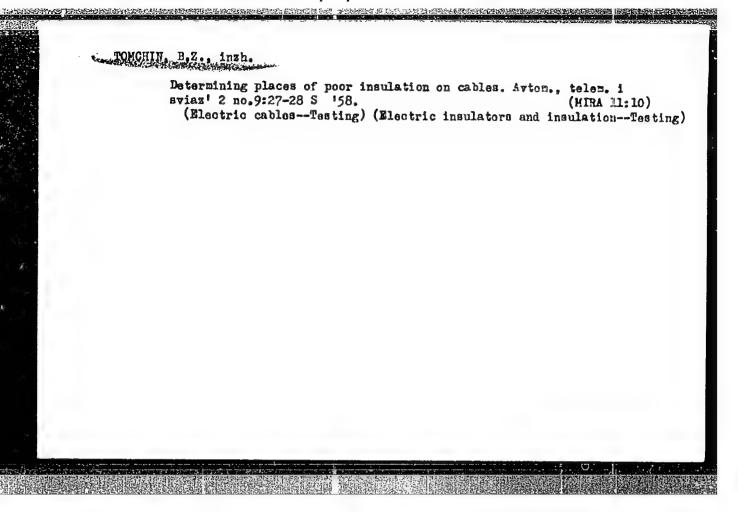
(Electric cables)

TOMCHIN, B.Z., insh.; MIKUSHKO, A.V., insh.

Chill casting of cable jointing sleeves. Vest. sviazi 22 no.10:
(MIRA 15:11)

(Electric cables)





TOMCHIN, B.Z.; KOKOSOV, L.V., redaktor; SOKOLOVA, R.Ya,, tekhnicheskiy
retaktor.

[Work methods of section overseers at the Leningrad municipal
telephone network] Metody raboty uchastkovyth nadsmotrehohikov
leningradekoi gorodskoi telefonnoi seti. Moskva, Gos. isd-vo lit-ry
po voprosam svissi i radio, 1953. 21 p. (MIRA 7:7)
(Leningrad-Telephone) (Telephone-Leningrad)

34835

5/106/62/000/003/010/01 A055/A101

6.7000

AUTHOR:

Tomchin, B. Z.

TILLE

On the calculation of electric losses in the metal sheathings of

communication cables

PERIODICAL: Elektrosvyaz', no. 3, 1962, 71 - 72

This article completes the work of G. Kaden "Elektromagnitnyye ekrany v vysokochastotnoy tekhnike i tekhnike elektrosvyazi" ("Electromagnetic shields in HF and electrocommunication techniques"), Gosenergoizdat, 1957). The author of the present article starts from the Kaden formula of the shielding coefficient S_n and finally finds the following formula for the determination of R_n:

$$R_{h} = \frac{a^{2}R^{2}}{\pi 6 \delta^{3}} \left[\frac{2\delta - R + \frac{Sh^{2}}{R}}{(R^{2} - Sh^{2})^{2}} + \frac{1}{2\delta Sh^{2}} \right] \frac{\infty}{n = 1, 2...} \frac{\left(\frac{Sh}{R}\right)^{2n}}{n + \frac{R}{2\delta}}$$
(5)

[Abstracter's note: symbol "Sh" is the translation of the Russian "3" which obviously stands for "3KPAH" = "shield". The author does not explain the mean-

Card 1/2

On the calculation of ...

S/106/62/000/003/010/010 A055/A101

ing of ")", nor that of a.] After a brief discussion of formula (5), the author reproduces the corresponding formula recommended by Kaden, which is:

 $R_{h} = \frac{4a^{2}R(R^{2}+Sh^{2})}{66d(R^{2}-Sh^{2})^{3}}.$ (7)

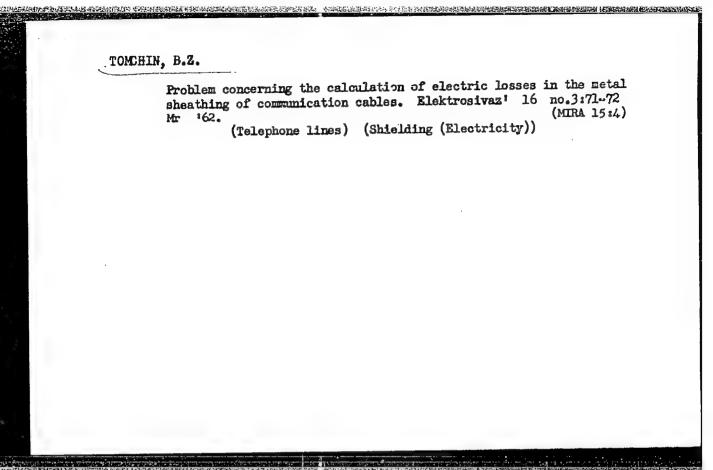
An experimental check, proving the accuracy of the results obtained with formula (5) is reproduced at the end of the article. The Soviet personalities mentioned in the article are: N. D. Kurbatov and Ye. A. Yakovlev. There are 3 Soviet-block references.

SUBMITTED: July 10, 1961

Card 2/2

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210017-1"

Methods involving the use of gas for locating damage in cable sheathing. Avtom., telem.i svias' 4 no.6:14-15
Je '60. (Blectric cables)



TOMCHIN, B.Z., inzh.

Visual method for locating cable sheathing damage. Avtom., telem.
1 sviaz' 6 no.10:41-42 0 '62. (MIRA 16:5)
(Electric cables--Testing)

TOMCHIN, B.Z., inzh.

Hermetic sealing of cab-tire communication cables. Avtoz., telen., i sviaz' 8 no.10:22-23 0 '64. (MIKA 17:11)

FILIPPOV, A.M.; PARFENOV, Yu.A.; MOROZOVA, A.D.; TOMCHIN, B.Z.; SHAFRAN, B.I., otv. red.; CHSNOKOVA, T.V., red.; SLUTSKIN, A.A., tekhn. red.

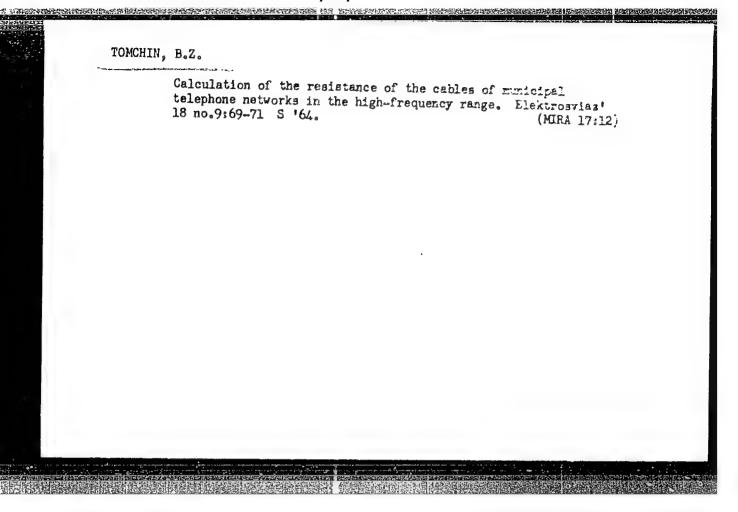
[Handbook on electric measurements in municipal telephone lines] Rukovodstvo po elektricheskim izmereniiam linii gorodskikh telefonnykh setei. Moskva, Sviaz'izdat, 1962. 120 p.

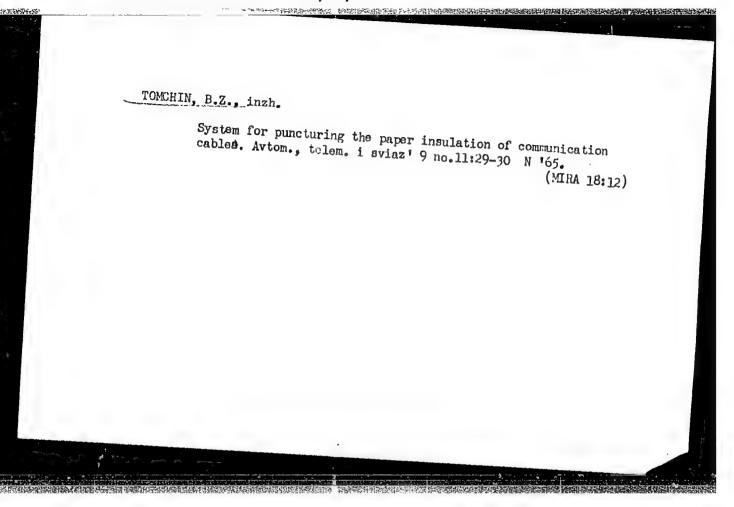
(MIRA 16:6)

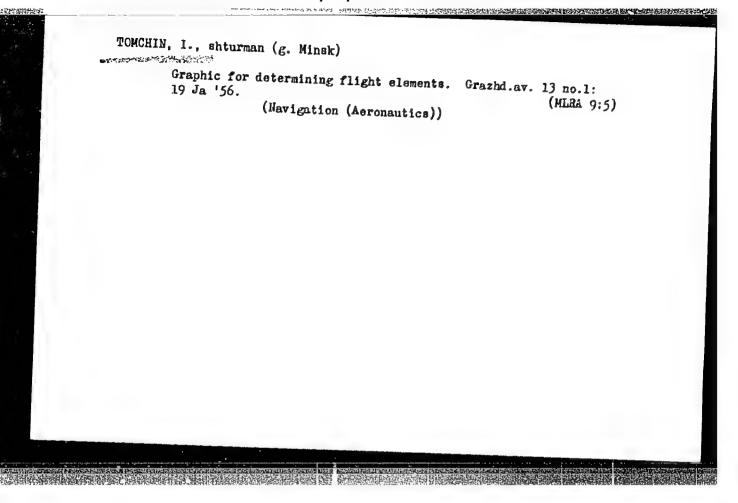
1. Russia (1923- U.S.S.R.) Upravleniye mestnoy telefonnoy svyazi i radiofikatsii. 2. Sotrudniki lineyno-kabel'noy laboratorii Nanchno-issledovatel'skogo instituta gorodskoy i sel'skoy telefonnoy svyazi Ministerstva svyazi SSSR (for Parfenov, Morozova, Filippov).

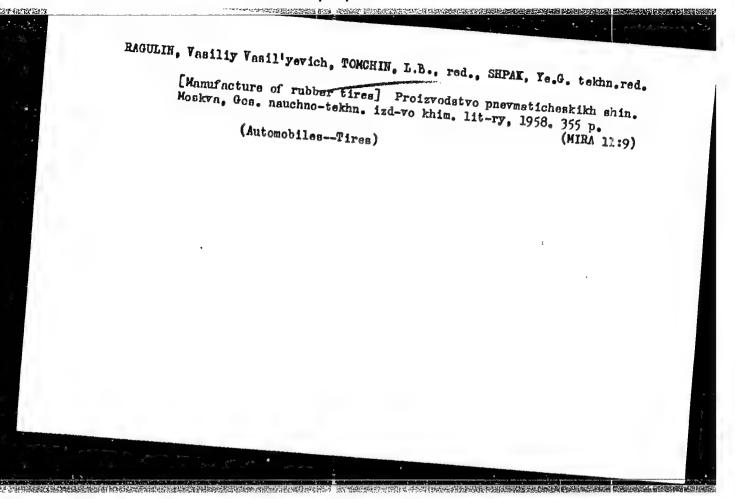
(Telephone lines)

(Electric measurements-Handbooks, manuals, etc.)









DEVIRTS, E.Ya.; TOMCHIN, L.B.; NOVIKOV, A.S.

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Use of petroleum polymeric resin as a softener for rubber compounds. Kauch.i rez. 21 no.4:8-10 Ap 162. (MIRA 15:4)

1. Nauchno-issledovatel skiy institut rezinovoy promyshlennosti.
(Resins) (Rubber, Synthetic)

37175

S/138/62/000/004/003/008 A051/A126

15.9130

AUTHORS:

Devirts, E.Ya.; Tomchin, L.B.; Novikov, A.S.

TITLE:

The use of petroleum-polymer resin as a softener of rubber mixes

PERIODICAL:

Kauchuk i rezina, no. 4, 1962, 8 - 10

TEXT: A study was made at the Scientific Research Institute of the Rubber Industry, on the possibilities of using petroleum-polymer resin as a softener in rubber mixes. The resin is a light-colored, hard substance with the following physico-chemical properties: softening temperature, 70°C; coloring according to the iodinometric scale 35; aqueous extraction reaction, weakly-alkaline; solubility in benzene, complete; molecular weight, 666; unsaturation, 35.6%. Experiments showed the resin to be an equivalent to the polydienes and to supersede rubrax. CKC -30 (SKS-30)-mixes containing this resin have no tendency to scorching, and have elevated adhesive strength. The rate of vulcanization is decreased, due to the unsaturated nature of the petroleum-polymer resin, and the tear-resistance is increased. The following conclusions were drawn: the petroleum-polymer resin is a good softener for mixes of general use, based on SKS-30. When using the resin instead of the softeners usually employed, the Card 1/2

The use of petroleum-polymer.....

S/138/62/000/004/003/008 A051/A126

adhesive strength of the mixes is improved and the mechanical properties of the rubbers improve at the same time. The petroleum-polymer resin can be used inthe properties of the mixes based on butadiene-styrene rubbers, without changing figures.

ASSOCIATION:

Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Scientific Research Institute of the Rubber Industry)

Card 2/2

THE STATE OF STREET STREET, ST

ANDRIANOV, A.P.; ZAYTSEV, M.M.; IDEL'CHIK, I.Ye.; POPOV, D.D.[deceased]; TEVEROVSKIY, Ye.N.; UZHOV, V.N.; CHUMAK, L.I.; SHAKHOV, G.F.; SHIROKOV, F.A.; TOMCHINA, Ye.I., red.; ZAZUL'SKAYA, V.F., tekhn.

[Battery cyclones; instructions for designing, assembling, and operating] Batareinye tsiklony; rukovodiashchie ukazaniia po proektirovaniiu, montazhu i ekspluatatsii. 2. izd. Moskva, Gos. nauchno-tekhn.izd-vo khim. lit-ry, 1959. 103 p. (MIRA 15:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po khimii. (Separators (Machines))

TOMCHINA, Ye.I., red.

[Chemistry and technology of nitrogen fertilizers and products of organic synthesis; transactions] Khimiia i tekhnologiia azotnykh udobrenii i produktov organicheskogo sinteza; trudy. Moskva, Saktor nauchno-tekhn. informatsii GIAP, 1963. 65 p. (MIRA 17:10)

1. Moscow. Gosudarstvennyy nauchno-issledovateliskiy i proyektnyy institut azotnoy promyshlennosti.

TOMCHINSKIY, S. A.

Assembling and using tanks with floating metal roofs. Transp i khran nefti no. 11:23 '63. (MIRA 17:5)

1. Bryanskoye upravleniye Glavnogo upravleniya po transportu i snabzheniyu neft'yu i nefteproduktami RSFSR.

24 (4) AUTHORS:

Anisimova, Ye. F., Engineer, Tomchuk,

SOV/119-59-8-12/15

A. N., Engineer

TITLE:

A New Optical Pyrometer of Increased Accuracy of the Type OKP-57

PERIODICAL:

Priborostroyeniye, 1959, Nr 8, p 29 (USSR)

ABSTRACT:

under the supervision of A. A. Andreyev In a KB (Design Office) a new optical pyrometer was developed with the direct participation of the authors and with the participation of Savitskiy, Yakobson and Sokolov. It is a so-called filament pyrometer, the most important data of which are given by a table. The instrument has three measuring ranges within the interval of from 700 to 6000°C, the error in the lower range being given as amounting to ± 5°, and that in the upper range to ± 130°C. The powerful optical system has an aperture of 1: 3.5, and the enlargement is 16.5 times. The temperature is measured by means of a temper color comparison between the tungsten filament of the pyrometer and the object, in which case, if the temperature exceeds 1250°C, an absorption filter is used in the pyrometer, and the actual pyrometer is extrapolated from the measuring values thus obtained. As the measurements are carried out by means of monochromatic filters, the emissivity of the measured body must

Card 1/2

A New Optical Pyrometer of Increased Accuracy of the SOV/119-59-8-12/15
Type OKP-57

be known, and the instrument possesses a special bridge circuit in the current supply, by means of which the emissivity can be taken into account. The appropriation and delivery of this instrument took place in 1959 at the Kaluzhskiy priborostroitel nyy zavod (Kaluzha Instrument Factory). There are 2 figures and 1 table.

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		Brown and a second a second and	COVERAGE: This is a collection of 1h articles on various questions in astronomy among the problems treated are: "*eteraining the age of lunar formation by analyzing settoritic crater distribution, atmospheric extinction in the oscert of noctilucant clouds, star brilliance, solar cycles, mater and committed there is an article on the 12th Moscow Astronomical Olympiad competition for students of astronomy and geodesy. Beforences accompany individual articles	rance les .	
ĺ			Yasil'yav, O.B. Accounting for Atmospheric Estimation in the Observation of Mortilucent Clouds	24	
		27 43 51	Colourod'kp. T.A. Statistical Selationship Setween the Amplitude of the Variations in the Brilliance of Variable Stars and Their Spectral Class	26	,
		7 .	Pyshnonto, Y.E., and M.H. Pyshnenko. Observations of the Comets Arend-Roland and Mrhoes in 1957	31	
		1	Rosenblyum, H.D. Hotes on H.V. Orlov's Formula	35	
	•	PC de l'éta	Rosenblyum, N.D. Processing a One Sided Photograph of the Meteor 9-10 of December 1990	37	
	•	į	Etholayer, S.F. An Approximate Computation of the Moon's Phases	>8	
l			Mil'thiter, M.A. Apparatus for Photographing Sclipses	41	
		ij	Hil'hhiter, M.A. Results of Observations of the Solar Holipse of June 30, 295 in the Town of Cherkasty	Sh. Ah	·.
			Touchuk, L.O. Notes on an Unknown Repirical Law	16	
	`	Y Silver	Bertav		
	•		Portsevskiy, K.A. The Twelfth Hoscow Astronomical Olympic Competition of	7 0	

TOROPOV, A.A., kand.med.nauk; ARYAYEV, L.N., kand.med.nauk; TOMCHUK, P.F., meditsinskaya sestra-narkotizator (Odessa)

Work of the anesthesiological murse. Fel'd. 1 akush. 26 no. 2:48-51 (MIRA 14:4)

F'61. (ANESTHETISTS)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756210017-1"

DYKMAN, I.M.; TOMCHUK, P.M.

Anisotropic effect of interelectron scattering on the conductivity of semiconductors with an ellipsoidal isoenergetic surface. Fiz. tver. tela 7 no.8:2298-2308 Ag 165. (MIRA 18:9)

1. Institut poluprevodníkov AN UkrSSR i Institut fiziki AN UkrSSR, Kivev.

L 5038-66 EaT(1)/EaT m)/1/Ear(t)/Ear(p)/EaA(h) IJF(c) JU/AT

**ACC NR: AP5027419 SOURCE CODE: UR/0181/65/007/011/3378/3385

AUTHOR: Grigor'yev, N. N.; Dykman, I. M.; Tomchuk, P. M.

ORG: Institute of Semiconductors, AN UkrSSR, Kiev (Institut poluprovodnikov AN UkrSSR)

TITLE: Temperature and mobility of hot electrons in polar semiconductors

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3378-3385

TOPIC TAGS: semiconductor alloy, indium alloy, electron gas, electron mobility, Coulomb scattering, impurity scattering ff

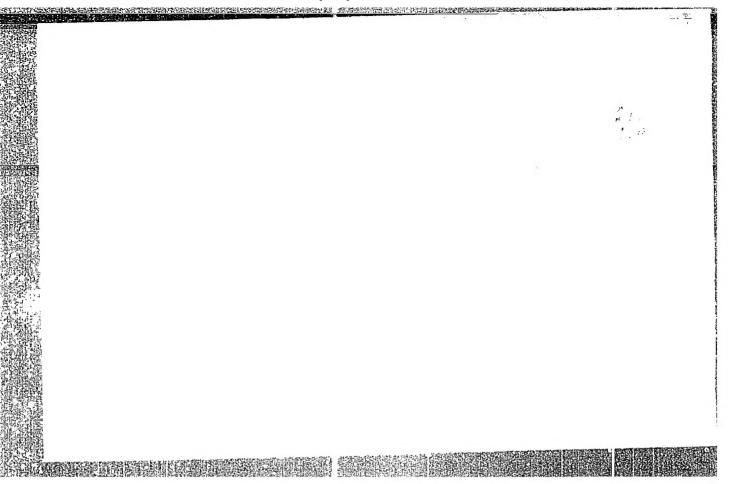
ABSTRACT: The function of electron distribution in alloyed polar semiconductors in electric fields of arbitrary strength has been determined with the aid of a kinetic equation. The interaction between the electrons, between the electron and the optical lattice oscillations, and between the electron and impurity ions were taken into account. The dependence of the mobility μ and the electron temperature T in n-InSb on the applied field shows that T and μ change slightly with the field only in the region of very weak fields. With the growth of the applied field, the electron temperature T increases, and dT/dF increases up to some limiting field F* at which dT/dF + ∞ . Beginning with some electron concentrations in the value of F* rapidly increases with the rise of n. The competing Coulomb and lattice scattering mechanisms determine the dependence of μ on F. At small n, the mobility noticeably decreases with the field. At sufficiently large n in weak fields, it may even increase. The dependence of mobility

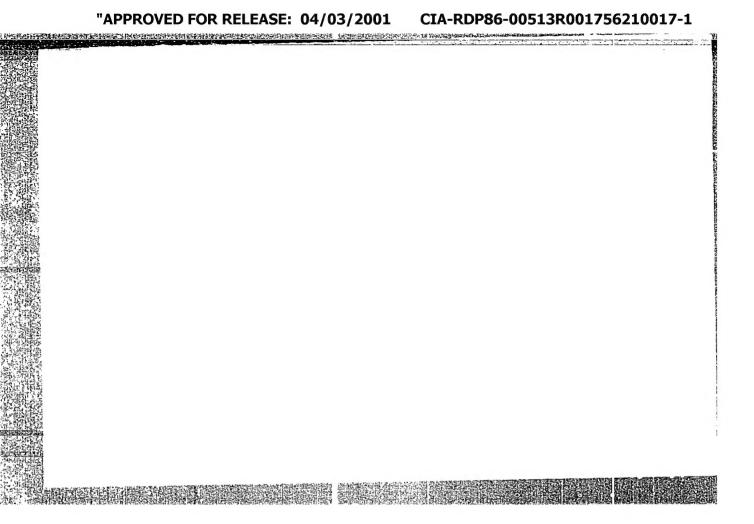
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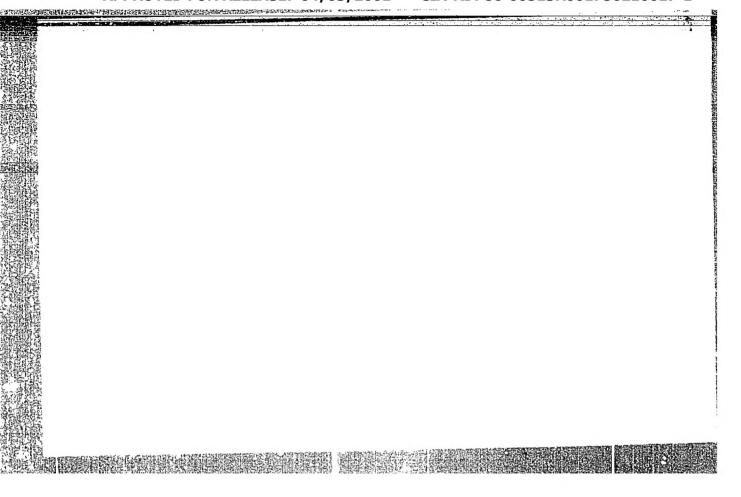
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ACCESSION NR: AP4041706

s/0181/64/006/007/2037/2046

AUTHOR: Vinetskiy, V. L.; Mashkevich, V. S.; Tomchuk, P. M.

TITLE: Theory of stationary radiation induced by interband transi-

tions

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 2037-2046

TOPIC TAGS: laser effect, laser emission, laser pumping method, stimulated emission, transition frequency

ABSTRACT: A kinetic equation method developed by the author for the analysis of stimulated emission (UFZh v. 8, 918, 1963) is used to determine the parameters of the singular modes at which laser action can be achieved. These parameters are then used to determine the threshold value of the pump signal. It is assumed that only direct transitions are effective, the electron and hole bands are spherical, the electrons and holes have equal effective masses, each band is in

Cord 1/2